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(54) DETERMINATION OF HUMAN PROMATRIX  
 METALLOPROTEASE-7 BY IMMUNOLOGICAL  
 MEASURING METHOD

(57) Abstract:

PURPOSE: To provide a method for accurately determining or measuring and detecting promatrix metalloprotease 7 (MMP-7) useful for analyzing relationship between various diseases.

CONSTITUTION: This determination method comprises measuring human MMP-7, especially by sandwich enzyme immunoassay using a combined antibody comprising a monoclonal antibody capable of specifically recognizing the N-terminal region containing an amino

acid sequence of R18-34 of pro-MMP derived from CaR-1 cell or the neighbor and a monoclonal antibody capable of specifically recognizing a C terminal region containing an amino acid sequence of R 253-267 as a measuring reagent. Furthermore, a reagent for measuring human MMP-7 by the method is provided. The reagent is capable of detecting, measuring and determining proMMP-7 found in cancer of the rectum and prostate cancer which are increasing at present as well as various cancer diseases. These monoclonal antibodies are further useful also as reagents for immunological dyeing of tissue and cell.

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